

SOUTHWEST FISHERIES SCIENCE CENTER PUBLICATIONS - 2003

- Bidigare, R. R., C. Benitez-Nelson, C. L. Leonard, P. D. Quay, M. L. Parsons, D. G. Foley, and M. P. Seki. 2003. Influence of a cyclonic eddy on microheterotroph biomass and carbon export in the lee of Hawaii. *Geophys. Res. Lett.* 30:1318.
- Bograd, S. J., D. A. Checkley, and W. S. Wooster. 2003. CalCOFI: a half century of physical, chemical and biological research in the California Current System. *Deep-Sea Res. Part II Top. Stud. Oceanogr.* 50:2349-2353.
- Bograd, S. J., and R. J. Lynn. 2003. Anomalous subarctic influence in the southern California Current during 2002. *Geophys. Res. Lett.* 30:8020.
- Bograd, S. J., and R. J. Lynn. 2003. Long-term variability in the Southern California Current System. *Deep-Sea Res. Part II Top. Stud. Oceanogr.* 50:2355-2370.
- Brodeur, R. D., W. G. Pearcy, and S. Ralston. 2003. Abundance and distribution patterns of nekton and micronekton in the northern California Current transition zone. *J. Oceanogr.* 59:515-535.
- Browman, H. I., R. D. Vetter, C. A. Rodriguez, J. J. Cullen, R. F. Davis, E. Lynn, and J.-F. St.-Pierre. 2003. Ultraviolet (280-400 nm) induced DNA damage in the eggs and larvae of *Calanus finmarchicus* G. (Copepoda) and Atlantic cod (*Gadus morhua*). *Photochem. Photobiol.* 77(4):397-404.
- Buongiorno, J., S. Zhu, D. Zhang, J. Turner, and D. Tomberlin. 2003. The Global Forest Products Model: Structure, Estimation, and Applications. Academic Press, San Diego. 300 p.
- Butler, J. L., L. D. Jacobson, J. T. Barnes, and H. G. Moser. 2003. Biology and population dynamics of cowcod (*Sebastodes levis*) in the southern California Bight. *Fish. Bull., U.S.* 101:260-280.
- Churnside, J. H., D. A. Demer, and B. Mahmoudi. 2003. A comparison of lidar and echosounder measurements of fish schools in the Gulf of Mexico. *ICES J. Mar. Sci.* 60:147-154.
- DeMartini, E. E., G. T. DiNardo, and H. A. Williams. 2003. Temporal changes in population density, fecundity, and egg size of the Hawaiian spiny lobster (*Panulirus marginatus*) at Necker Bank, Northwestern Hawaiian Islands. *Fish. Bull., U.S.* 101:22-31.
- Demer, D. A., and S. G. Conti. 2003. Reconciling theoretical versus empirical target strengths of krill: effects of phase variability on the distorted-wave Born approximation. *ICES J. Mar. Sci.* 60:429-434.
- Demer, D. A., S. G. Conti, J. De Rosny, and P. Roux. 2003. Absolute measurements of total target strength from reverberation in a cavity. *J. Acoust. Soc. Am.* 113(3):1387-1394.
- Dolar, M. L., W. A. Walker, G. L. Kooyman, and W. F. Perrin. 2003. Comparative feeding ecology of spinner dolphins (*Stenella longirostris*) and Fraser's dolphins (*Lagenodelphis hosei*) in the Sulu Sea. *Mar. Mamm. Sci.* 19(1):1-19.

Dotson, R., and R. Charter. 2003. Trends in the southern California sport fishery. Calif. Coop. Oceanic Fish. Invest. Rep. 44:94-106.

Gentleman, W., A. Leising, B. Frost, S. Strom, and J. Murray. 2003. Functional responses for zooplankton feeding on multiple resources: a review of assumptions and biological dynamics. Deep-Sea Res. Part II Top. Stud. Oceanogr. 50:2847-2875.

Hewitt, R. P., D. A. Demer, and J. H. Emery. 2003. An 8-year cycle in krill biomass density inferred from acoustic surveys conducted in the vicinity of the South Shetland Islands during the austral summers of 1991-1992 through 2001-2002. Aquat. Living Resour. 16:205-213.

Hyrenbach, K. D., and R. C. Dotson. 2003. Assessing the susceptibility of female black-footed albatross (*Phoebastria nigripes*) to longline fisheries during their post-breeding dispersal: an integrated approach. Biol. Conserv. 112:391-404.

Jiang, J., F. B. Schwing, and R. Mendelsohn. 2003. Multiscale abrupt changes in precipitation in the western USA for 8000 years. Proceedings of the International Symposium on Climate Change, April 1-3, 2003, Beijing, China.

Kirkley, J. E., D. Squires, M. F. Alam, and J. O. Ishak. 2003. Excess capacity and asymmetric information in developing country fisheries: the Malaysian purse seine fishery. Amer. J. Agr. Econ. 85(3):647-662.

Laidig, T. E., D. E. Pearson, and L. L. Sinclair. 2003. Age and growth of blue rockfish (*Sebastodes mystinus*) from central and northern California. Fish. Bull., U.S. 101:800-808.

Lindley, S. T. 2003. Estimation of population growth and extinction parameters from noisy data. Ecol. Appl. 13(3):806-813.

Lindley, S. T., and M. S. Mohr. 2003. Modeling the effect of striped bass (*Morone saxatilis*) on the population viability of Sacramento River winter-run chinook salmon (*Oncorhynchus tshawytscha*). Fish. Bull. U.S. 101:321-331.

Lynn, R. J., S. J. Bograd, T. K. Chereskin, and A. Huyer. 2003. Seasonal renewal of the California Current: the spring transition off California. J. Geophys. Res. 108(C8):3279.

Maunder, M. N. and G. M. Watters. 2003. A general framework for integrating environmental time series into stock assessment models: model description, simulation testing, and example. Fish. Bull., U.S. 101:89-99.

McGowan, J. A., S. J. Bograd, R. J. Lynn, and A. J. Miller. 2003. The biological response to the 1977 regime shift in the California Current. Deep-Sea Res. Part II Top. Stud. Oceanogr. 50:2567-2582.

Mendelsohn, R., F. B. Schwing, and S. J. Bograd. 2003. The spatial structure of subsurface temperature variability in the California Current System, 1950-1993. J. Geophys. Res. 108(C3):3093.

Murphree, T., S. J. Bograd, F. B. Schwing, and B. Ford. 2003. Large-scale atmosphere-ocean anomalies in the northeast Pacific during 2002. Geophys. Res. Lett. 30:8026.

- Murphree, T., P. Green-Jessen, F. B. Schwing, and S. J. Bograd. 2003. The seasonal cycle of wind stress curl and its relationship to subsurface ocean temperature in the northeast Pacific. *Geophys. Res. Lett.* 30:469.
- Near, T. J., S. E. Russo, C. D. Jones, and A. L. DeVries. 2003. Ontogenetic shift in buoyancy and habitat in the Antarctic toothfish, *Dissostichus mawsoni* (Perciformes: Nototheniidae). *Polar Biol.* 26:124-128.
- Norton, J. G., and J. E. Mason. 2003. Environmental influences on species composition of the commercial harvest of finfish and invertbrates off California. *Calif. Coop. Oceanic Fish. Invest. Rep.* 44:123-133.
- Olson, R. J., and G. M. Watters. 2003. A model of the pelagic ecosystem in the eastern tropical Pacific Ocean. *Inter-Am. Trop. Tuna Comm. Bull.* 22(3):133-217.
- Perrin, W. F., M. L. L. Dolar, M. Amano, and A. Hayano. 2003. Cranial sexual dimorphism and geographic variation in Fraser's dolphin, *Lagenodelphis hosei*. *Mar. Mamm. Sci.* 19:484-501.
- Perrin, W. F., and S. L. Mesnick. 2003. Sexual ecology of the spinner dolphin, *Stenella longirostris*: geographic variation in mating system. *Mar. Mamm. Sci.* 19:462-483.
- Peterson, W. T., and F. B. Schwing. 2003. A new climate regime in northeast Pacific ecosystems. *Geophys. Res. Lett.* 30:1896.
- Polovina, J. J., E. Howell, D. M. Parker, and G. H. Balazs. 2003. Dive-depth distribution of loggerhead (*Carretta carretta*) and olive ridley (*Lepidochelys olivacea*) sea turtles in the central North Pacific: might deep longline sets catch fewer turtles? *Fish. Bull., U.S.* 101:189-193.
- Ralston, S., J. R. Bence, M. B. Eldridge, and W. H. Lenarz. 2003. An approach to estimating rockfish biomass based on larval production, with application to *Sebastodes jordani*. *Fish. Bull., U.S.* 101:129-146.
- Schwing, F. B., J. Jiang, and R. Mendelssohn. 2003. Coherency of regime shifts between the NAO, NPI, and PDO. *Geophy. Res. Lett.* 30:1406.
- Smith, S. E., R. A. Mitchell, and D. Fuller. 2003. Age-validation of a leopard shark (*Triakis semifasciata*) recaptured after 20 years. *Fish. Bull., U.S.* 101:194-198.
- Smith, P. E., and H. G. Moser. 2003. Long-term trends and variability in the larvae of Pacific sardine and associated fish species of the California Current region. *Deep-Sea Res. Part II Top. Stud. Oceanogr.* 50:2519-2536.
- Squires, D., R. Q. Grafton, M. F. Alam, and I. H. Omar. 2003. Technical efficiency in the Malaysian gill net artisanal fishery. *Envir. Dev. Econ.* 8:481-504.
- Venrick, E. L., S. J. Bograd, D. A. Checkley, S. Cummings, R. Durazo, G. Gaxiola-Castro, J. Hunter, A. Huyer, K. D. Hyrenbach, B. E. Lavanegos, A. Mantyla, F. B. Schwing, R. L. Smith, W. J. Sydeman, and P. A. Wheeler. 2003. The state of the California Current, 2002-2003: tropical and subarctic influences vie for dominance. *Calif. Coop. Oceanic Fish. Invest. Rep.* 44:28-60.

Watters, G. M., R. J. Olson, R. C. Francis, P. C. Fiedler, J. J. Polovina, S. B. Reilly, K. Y. Aydin, C. H. Boggs, T. E. Essington, C. J. Walters, and J. F. Kitchell. 2003. Physical forcing and the dynamics of the pelagic ecosystem in the eastern tropical Pacific: simulations with ENSO-scale and global-warming climate drivers. *Can. J. Fish. Aquatic Sci.* 60(9):1161-1175.

Wilson, C.. 2003. Late summer chlorophyll blooms in the oligotrophic North Pacific subtropical gyre. *Geophys. Res. Lett.* 30:10.

Wlasiuk, G., J. C. Garza, and E. Lessa. 2003. Genetic and geographic differentiation in the Rio Negro tuco-tuco (*Ctenomys rionegrensis*): distinguishing historical and contemporary gene flow. *Evolution* 57:913-926.

Work, T. M., G. H. Balazs, M. Wolcott, and R. Morris. 2003. Bacteraemia in free-ranging Hawaiian green turtles *Chelonia mydas* with fibropapillomatosis. *Dis. Aquat. Org.* 53:41-46.

Yoklavich, M. M., C. B. Grimes, and W. W. Wakefield. 2003. Using laser line scan imaging technology to assess deepwater seafloor habitats in the Monterey Bay National Marine Sanctuary. *Mar. Technol. Soc. J.* 37(1):18-26.

NOAA Technical Memos NMFS

Ambrose, D. A., R. L. Charter, and H. G. Moser. 2003. Ichthyoplankton and station data for surface (manta) and oblique (bongo) plankton tows for California Cooperative Oceanic Fisheries Investigation survey cruises in 2001. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-348, 104 p. NTIS No. PB2003-1045623.

Ambrose, D. A., R. L. Charter, and H. G. Moser. 2003. Ichthyoplankton and station data for surface (manta) and oblique (bongo) plankton tows for mini-California Cooperative Oceanic Fisheries Investigation survey cruises in 1997 and 1998. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-351, 69 p. NTIS No. PB2004-100050.

Charter, S. L., R. L. Charter, and H. G. Moser. 2003. Ichthyoplankton and station data for surface (manta) and oblique (bongo) plankton tows for California Cooperative Oceanic Fisheries Investigation survey cruises in 2002. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-352, 97 p. NTIS No. PB2004-100049.

Lipsky, J. D. (ed.). 2003. AMLR 2001/2002 field season report. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-350, 187 p. NTIS No. PB2003-104537.

Lipsky, J. D. (ed.). 2003. AMLR 2002/2003 field season report. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-355.

Lowry, M. S., and J. V. Carretta. 2003. Pacific harbor seal, *Phoca vitulina richardii*, census in California during May-July 2002. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-353, 50 p.

MacCall, A. D., and T. C. Wainwright (eds). 2003. Assessing extinction risk for west coast salmon: Proceeding of the workshop (November 13-15, 1996, Seattle, Washington). U.S. Dep.

Commer., NOAA Tech. Memo. NMFS-NWFSC-56, 197 p.

Philbrick, V. A., P. C. Fiedler, L. T. Ballance, and D. A. Demer. 2003. Report of ecosystem studies conducted during the 2001 Oregon, California, and Washington (ORCAWALE) marine mammal survey on the research vessels *David Starr Jordan* and *McArthur*. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-349, 50 p. NTIS No. PB2003-103526.

Taylor, B. L., M. Scott, J. Heyning, and J. Barlow. 2003. Suggested guidelines for recovery factors for endangered marine mammals. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-354, 5 p.

Williams, T. H., and G. H. Reeves. 2003. Ecosystem diversity and the extinction risk of Pacific salmon and trout. In A. D. MacCall and T. C. Wainwright (eds.), Assessing extinction risk for west coast salmon: proceedings of the workshop (November 13-15, 1996, Seattle, Washington), p. 107-115. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-NWFSC-56.